

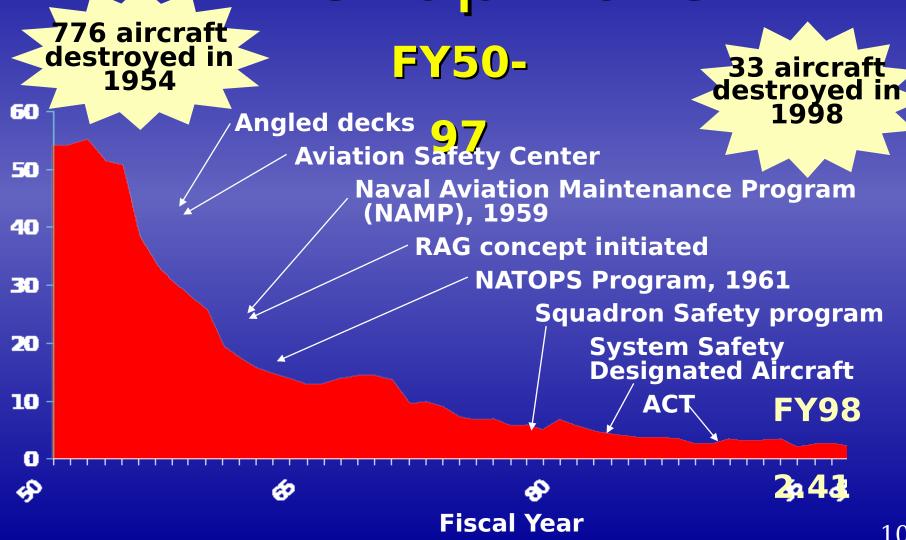
"Avoid the distractions of debates on political correctness and focus on the soldiers' mission, one that remains fixed, determined, inviolable. It is to win our wars."

General Douglas MacArthur April, 1962

"We're out of the do more with less business. We can do less with less or we can do more with more, but we will no longer do more with less."

Johnson College Admiral Jay Naval War June,

#### Naval Aviation Mishap Rate



### Navy & Marine Corps Class A Flight Mishaps

5 year trends indicate a plateau - but FY 98 rate highest since FY 93



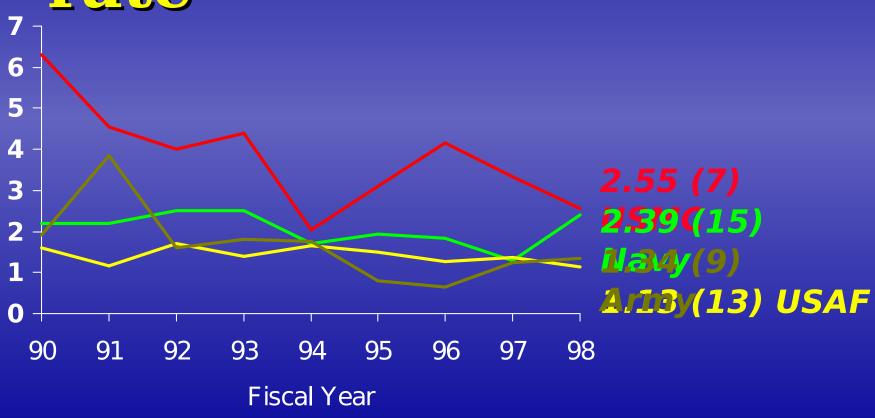
#### Cost of Mishaps Navy and Marine Corps, FY98

**Total:** \$891 **Aviation Million** Recreati \$12M \$820M **PMV** \$20M **Afloat** Shore/Ground \$15M \$24M

#### Cost of Mishaps Navy, FY94-98

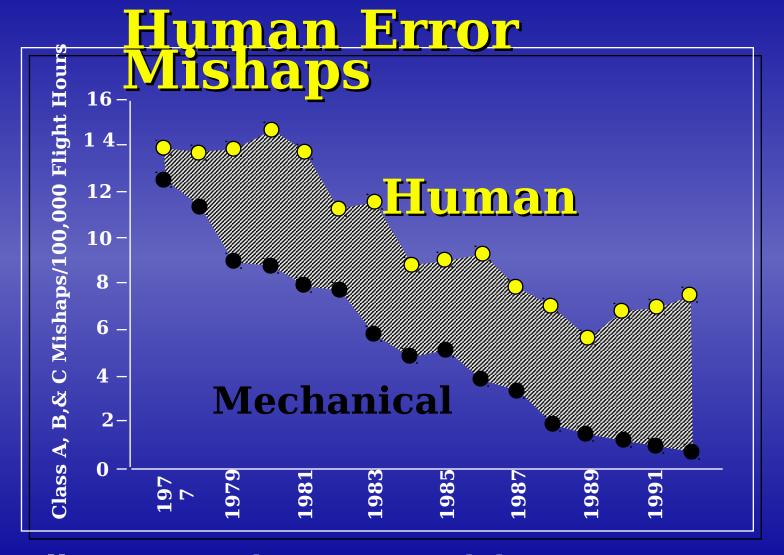


# All Services, Class A Flight Mishap Rates Rates have highest rate



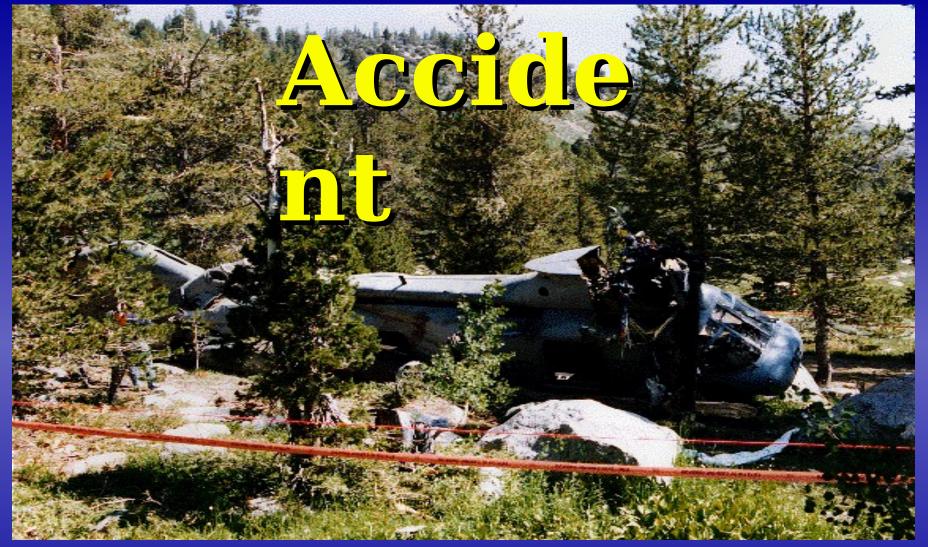
### Human Error 4 of every 5 Navy Service Class A flight mishaps involve human error

#### No Steady Decrease in



All Navy-Marine Corps Mishaps, CY 1977-

1106



The unplanned result of a behavior that is likely part of

1005A

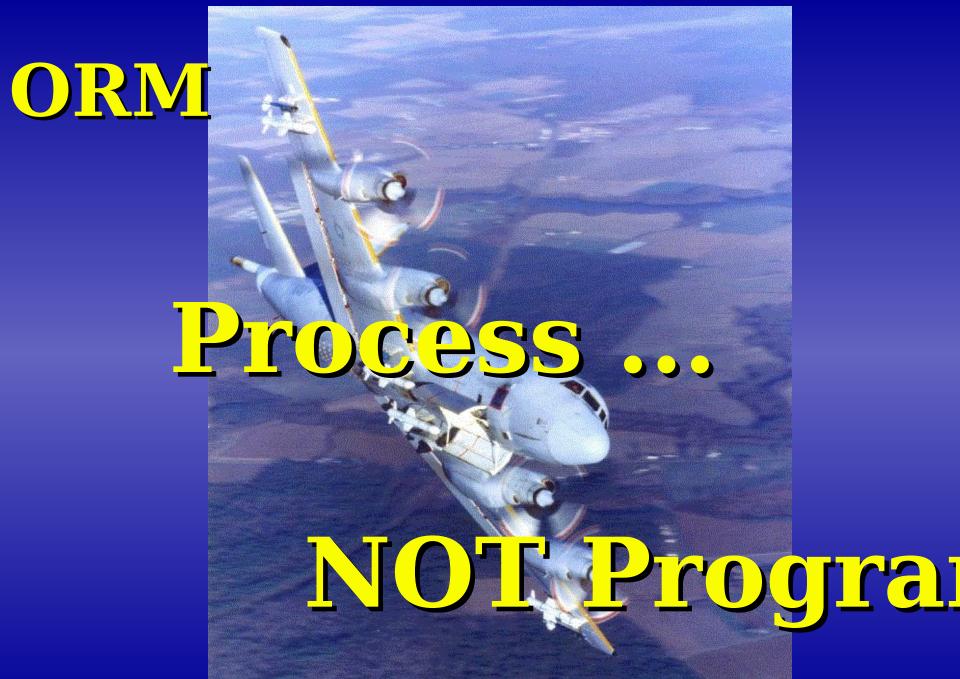
# Organizational Culture "The way we do things

- here"
  Fundamental building blocks
- Group values and standards
- Medium for growth
  Shaped by leadership



### **Desired Cultural** • Accountability

- Integrity
- Focus on standards
- Continuous and open communication
- Intolerance for noncompliance
- **Consistent decisions**



1052A

# Risk Management

- > A Decision Making Tool
- > Increases Ability to Make

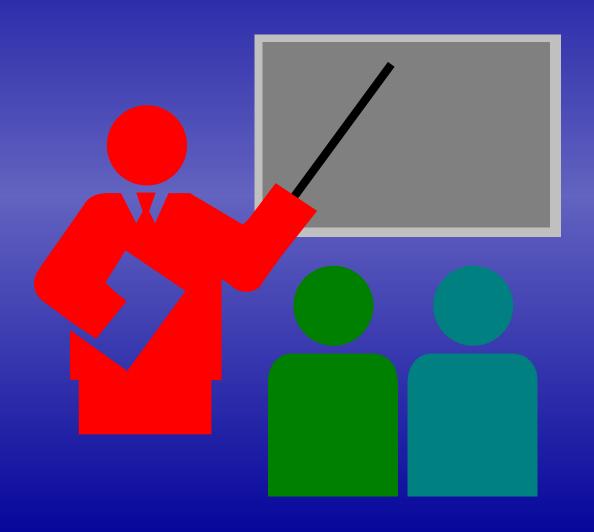
Informed Decisions

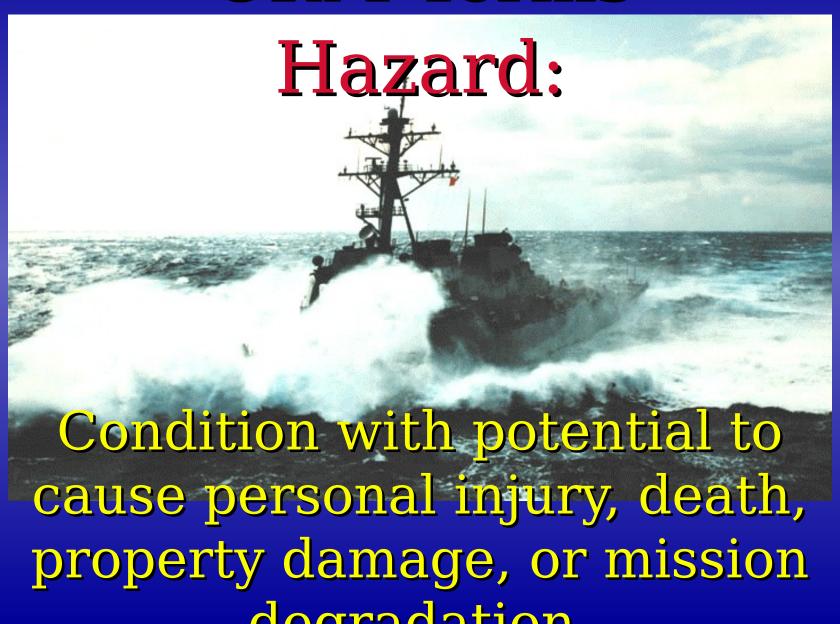
> Reduces Risks to Acceptable Levels

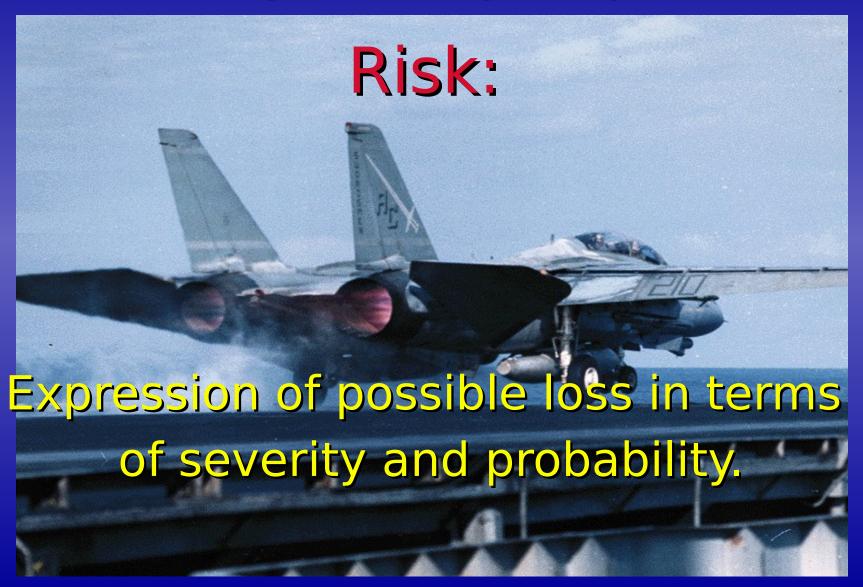
## Operational Risk Management

#### **Goal:**

To optimize operational capability and readiness by managing risk to accomplish the mission with minimal loss.







# ORM Terms Severity:

The worst consequence with the can occur as a result of a hazard.

#### Probability:

telihood that a hazard will result in mishap or loss.

#### Hazard

**Bad Weather** 

Flock of Birds

Walking on top of Slippery AC

#### Risk

High Probability Flight Ops Cnx

Moderate Chance of Engine FOD

Some Chance of Fall Producing Severe Injury

#### Risk Assessment:

The process of detecting hazards and assessing associated risks.

#### Control:

A method for reducing risk for an

identified hazard by lowering the

probability of occurred decreasing potential second or both.

#### Dperational Risk Management

The process of dealing with risk associated with military operations, which includes risk assessment, risk decision making, and implementation of effective risk controls.

# Operational Risk Management Process

- 1. Identify Hazards
- 2. Assess Hazards
- 3. Make Risk Decisions
- 4. Implement Controls
- 5. Supervise

## Causes of Risk

- \* Change The "Mother" of Risk
  - \* Resource Constraints
  - \* New Technology
- \* Complexity
- \* Stress

#### Risk (Cont.)

- \* Human Nature
- \* High Energy Levels
- \* Societal Constraints
- \* Environmental Influences
- \* Speed/Tempo of Operation

# Four ORM Principles

- 1. Accept risk when benefits outweigh the cost.
- 2. Accept no unnecessary risk.
- 3. Anticipate and manage risk by planning.
- 4. Make risk decisions at the right level.

#### ORM vs. Traditional Approach

**Systematic** 

Random, Individual-I

**Proactive** 

Reactive

of Risk Into Plan

Integrates All Types Safety As After-thought On Plan is Done

Common Process/Terms Non-standard

Conscious Decision "Can Do" Regardless of Ris Based on Risk vs. Benefit

#### The Benefits of ORN

> Reduction in Mishaps

> Improved
Missiontiveness

## Operational Risk Management

Levels of Application

- 1. Time-critical On the run consideration of the 5 Step
- 2. Deliberate Application of to complete 5-Step Process
- 3. In-depth Complete 5-Step Process with Detailed Analy

## ORM Implementation Concept

- Naval Aviation Leads The Way!
- Leverage the Army's Investment in ORM
- PHASE I: JUMP START for Operational Units
- PHASE II: CNATRA/FRS/FWS Pipeline Training
- PHASE III: CNET/CONTRACTOR Pipeline Training

### ORM - Implementation Plan

PHASE I: Jump Start for Operation

- Naval Safety Center "Train the Train Course
- Senior Leader Training
- Squadron Workshop Tra hing

### ORM - Implementation Plan

- PHASE II: Long Term CNATRA FROM Pipeline Training
  - VT/HT Flight Instructor (user/ dv)
  - Student API (indoc) and V7/H1 veer)
  - FRS (user)
  - FWS/Type Wing/M/W/AG (adv)
  - CO/XO ASC course (1 acer)

#### Why do we need ORM

- USN & All other services decreasing in size
- Number of missions increasing
- Can not afford to sustain the losses we historically suffer during training

### ORM IMPLEMENTATION STATUS

DOCTRINE: Naval doctrinal Pub 1,3 &

5 FMFM - 1

POLICY: OPNAVINST 3500.39

**TRAINING:** 

- Naval Safety Center
- Naval Post Graduate School

# ORM: WHERE ARE THE TRAINERS?

• CNAP: 31

• CNAL: 30

• CNARF: 17

• CNATRA: 44

NAVAIR: 6

• CNTWL, NWTSPM, NWTSCL, VX-1, VX-9

Some trainers have already PCSed

# Your Next Mishap . . . Who, Not



- Self-discipline
- Leadership
- Training
- Standards
- Support

"Life is tough, but it's tougher if you're

stupid"

Sergeant John M.
Stryker, USMC, in
"The Sands of
Iwo Jima"

